

Figure 1

IM Server Circular Array for its Buffer System

Position	201	202	203	204	205	206	207	208
1	Sender	Recipient	Message	Retrieved	Sent	Confirmed	Processed	
2	639189336647	639175336647	"Hello"	0	0	0	1	
3	639195540138	639175256752	"Where..."	1	0	0	0	
4	639178139331	639178462357	"Please..."	0	0	1	0	
5	639175249829	639175399043	"Chikka..."	0	0	1	0	
6	639189989899	639179984623	"How..."	0	1	0	0	
...	639189989899	639189266537	"Good..."	0	1	0	0	
...

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SMSC Buffer Server Circular Array

Position	201	202	203	204	205	206	207	208
1	Sender	Recipient	Message	Retrieved	Sent	Confirmed	Processed	
2	639189336647	639175336647	"Hello"	0	0	1	0	
3	639195540138	639175256752	"Where..."	0	0	0	1	
4	639178139331	639178462357	"Please..."	0	1	0	0	
5	639175249829	639175399043	"Chikka..."	0	1	0	0	
6	639189989899	639179984623	"How..."	1	0	0	0	
...	639189989899	639189266537	"Good..."	1	0	0	0	
...

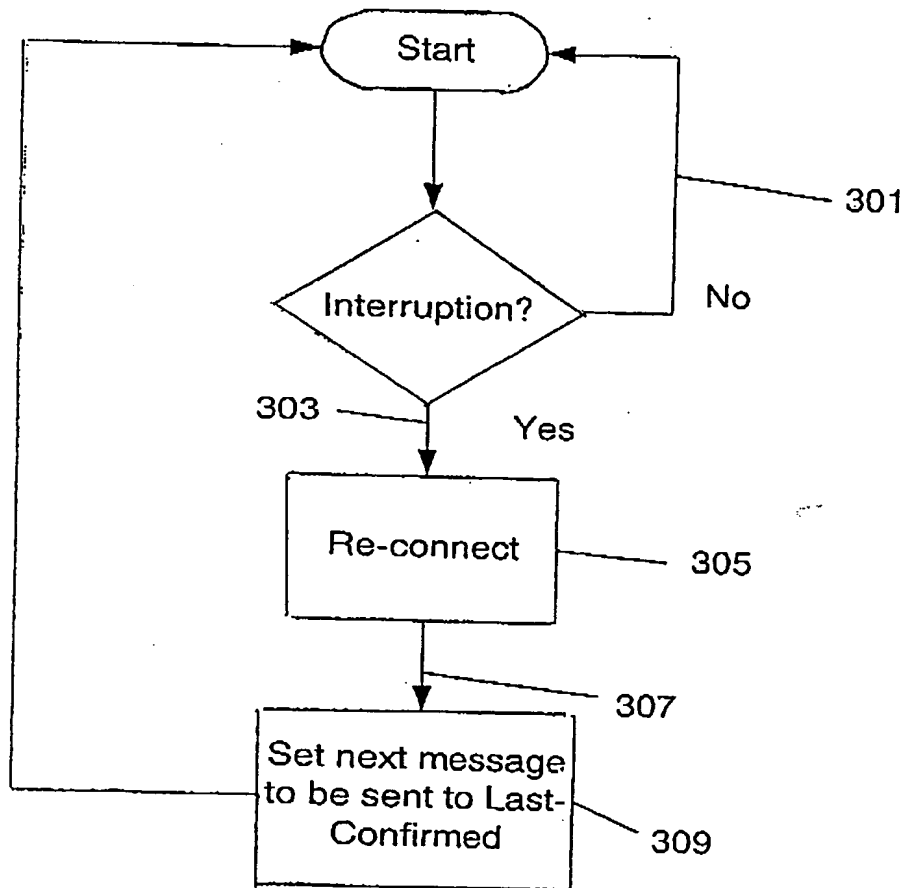
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Figure 2

**Figure 3**

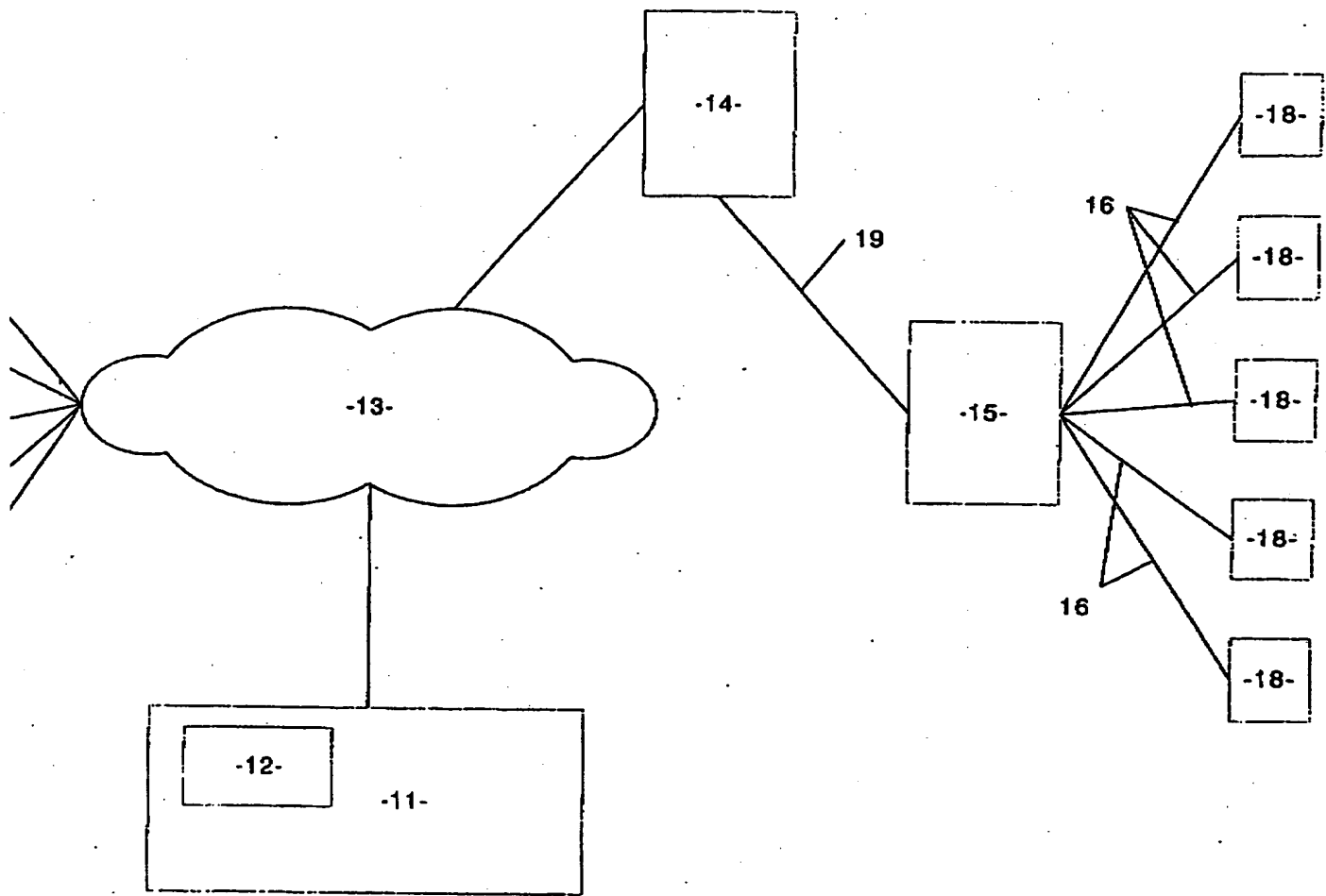


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	639178139331	639178462357	"Please..."	0	0	1	0
	639175249829	639175399043	"Chikka..."	0	0	1	0
	639189998999	639179984623	"How..."	0	1	0	0
	639189990999	639189266537	"Good..."	0	1	0	0

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Server Circular Array

201	202	203	204	205	206	207	208
n	Sender	Recipient	Message	Retrieved	Sent	Confirmed	Processed
	639189336647	639175336647	"Hello"	0	0	1	0
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	639178139331	639178462357	"Please..."	0	1	0	0
	639175249829	639175399043	"Chikka..."	0	1	0	0
	639189998999	639179984623	"How..."	1	0	0	0
	639189990999	639189266537	"Good..."	1	0	0	0

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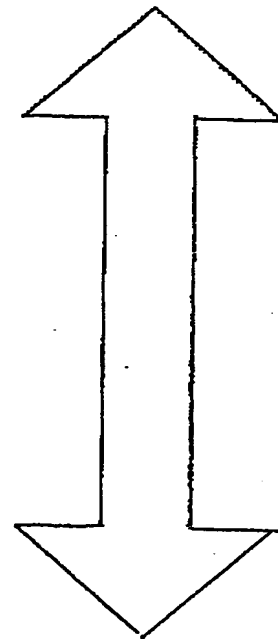
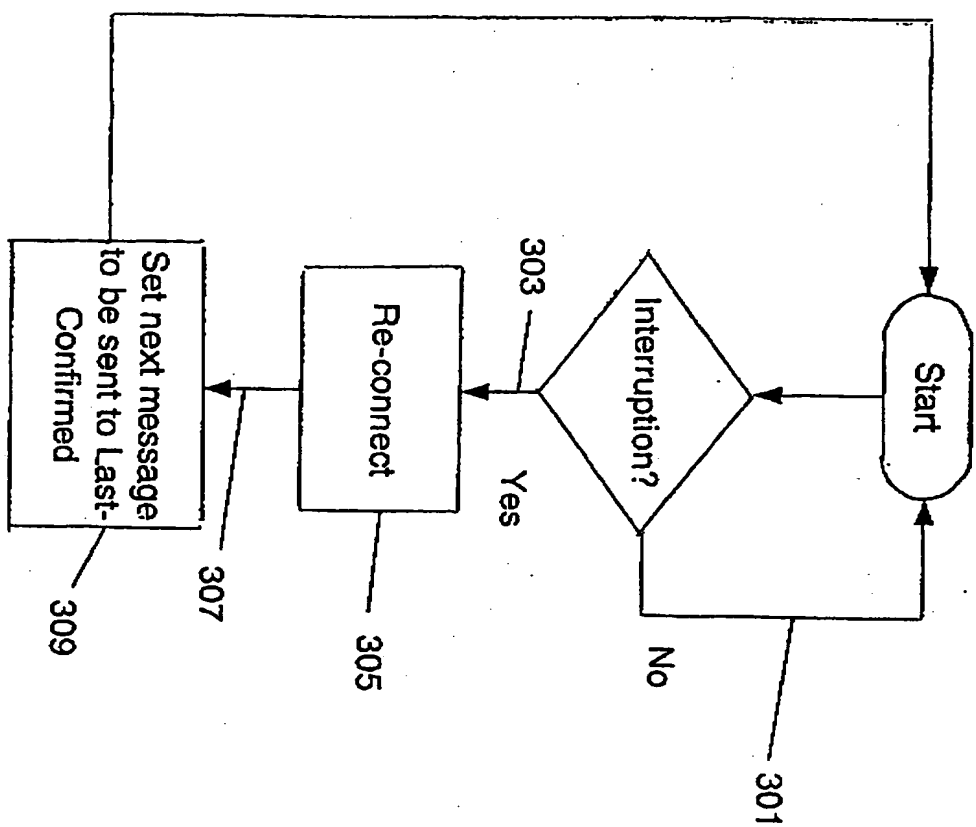


Figure 2



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